

Structure and mechanical ...

30944
S/571/60/000/006/008/011
E091/E435

temperature was controlled by means of a photoelectric pyrometer designed by the Experimentatnyye masterskiye (Experimental workshops) of the Moskovskiy institut stali im. I.V.Stalina (Moscow Steel Institute imeni I.V.Stalin) and by a thermoelectric pyrometer TEP-1 (TEP-1) designed by the Laboratoriya induktsionnogo nagreva (Induction Heating Laboratory) of the Fiziko-tekhnicheskogo institut AN BSSR (Physicotechnical Institute, AS Belorussian SSR). The annealed structure was studied by means of metallographic and X-ray analyses; the change in mechanical properties was assessed from the strength and plasticity results obtained during upsetting in the press. It was found that the temperatures of commencement and completion of recrystallization during induction heating are displaced to a higher range. The rise in recrystallization temperature is the greater, the higher the rate of heating. For alloy VT-5, this temperature rise is 150 to 200°C for a heating rate of 25°C/sec and 350 to 400°C for a heating rate of 300°C/sec. For the same heating rates the temperature rise for the alloy VT-1-1 and VT-3-1 is 80 to 100°C and 150 to 200°C respectively, and for the alloy VT-3-1 it is 50 to 70°C and Card 2/4

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150 to 200°C respectively. The higher annealing temperature used in induction heating is compensated for by the high heating rate and by the fact that soaking is not required and that intense grain growth does not occur. As the degree of deformation has little influence on the grain size of induction heated specimens, a more homogeneous structure is obtained throughout the section of the deformed metal. The plasticity and strength are higher in the case of induction annealing; particularly if there is a great increase in the plasticity of the alloy VT-3-1, which is very difficult to deform. The following parameters are recommended for annealing: alloy VT-5 to be heated to 1050 to 1100°C at a rate of 25°C/sec or to 1100 to 1150°C at 50°C/sec; alloy VT-1-1 to be heated to 800°C at 25°C/sec or to 900°C at 150°C/sec; alloy VT-3-1 to be heated to 1100°C at 50°C/sec. There are 12 figures, 1 table and 6 references: 4 Soviet and 2 non-Soviet. The reference to an English language publication reads as follows: Ref.4: Obinata J. Nischimura, J. Inst. of Metals, v.84, 1956.

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Table 1.

Alloy	Al	Cr	Mo	Fe	Si	N ₂	H ₂	C	Type of alloy
VT-5	4.9	-	-	-	0.12	-	-	-	one-phase
VT-1-1	-	-	-	0.07	0.016	0.017	0.005	0.041	"
VT-3-1	4.2	1.6	1.2	0.20	0.02	0.04	0.02	0.05	two-phase

Card 4/4

S/137/62/000/006/128/163
A052/A101

AUTHORS: Bodyako, M. N., Astapohik, S. A.

TITLE: X-ray methods of determining grain size

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 73, abstract 61455
("Dokl. AN BSSR", v. 5, no. 12, 1961, 551 - 553)

TEXT: The principal features of the method of determining grain sizes in a coarse-grain material by counting the number of spots on Debye ring are described. For spherical crystals $D_{av} = C_0 \sqrt[3]{n_{hkl}}$, where D_{av} is the average grain size, n_{hkl} is the number of spots and C_0 is a coefficient. The value of C_0 was determined by radiographing the line (420) of fully recrystallized Ni, by counting the number of spots on Debye ring and determining grain size under microscope. Auxiliary diagrams in $D - n$ and $D - \sqrt[3]{n}$ coordinates are given. The method makes it possible to compute the grain size of 2 - 100 μ in the case of heterocaxial crystals with a chaotic orientation. ✓

[Abstracter's note: Complete translation]

L. Mirkin

Card 1/1

S/170/62/005/005/007/015
B104/B102

AUTHORS: Bodyako, M. N., Astapchik, S. A.

TITLE: The effect of temperature and time of annealing on copper recrystallization

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5. no. 5, 1962, 61-67

TEXT: Recrystallization as a function of duration and temperature of annealing and of degree of deformation is investigated by a Debye pattern method. The change in Debye pattern intensity during recrystallization is studied. If recrystallization is incomplete the line intensity has several "peaks" corresponding to the separate crystallites. With further crystallization the number and intensity of the "peaks" increase until the line consists of one "peak" only (complete crystallization). $\epsilon_r = \sum S_t / (\sum S_t + \sum S_b)$ characterizes the degree of recrystallization. $\sum S_t$ is the total intensity of the peaks, $\sum S_b$ is the total intensity of the background. Cold rolled commercial

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S/170/62/005/005/007/015
B104/B102

The effect of temperature and ...

copper was annealed for 5, 10, 20, ..., 60 minutes at 280°C. Debye studies were carried out with an YFC-70 (URS-70) apparatus with copper emission. Results: Recrystallization can be described by $\epsilon_r = 1 - \exp(-2.6 \cdot 10^{-5} t^2)$.

Degree of recrystallization as a function of temperature is described by $\epsilon_r = \exp(a-b/T)$. a and b are constants depending on initial and final temperature of recrystallization and on the material. If recrystallization becomes nearly complete the degree of recrystallization increases more slowly than as described by the above formula. At $T = \text{const}$, $\epsilon_r = C \epsilon_d^k$, where ϵ_d is the degree of deformation; $C = \text{const}$, $k = \text{const} > 1$. There are 4 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN BSSR, g. Minsk
(Physicotechnical Institute AS BSSR, Minsk)

SUBMITTED: November 27, 1961

Card 2/2

BODYAKO, M.N.; ASTAPCHIK, S.A.

Shifting of the temperature zone of recrystallization as
dependent on the heating rate. Dokl. AN BSSR 6 no.7:432-
434 J1 '62. (MIRA 16:8)

1. Fiziko-tekhnicheskiy institut AN BSSR. Predstavleno
akademikom AN BSSR K.V. Gorevym.
(Metallurgy) (Crystallization)

BODYAKO, M. M. [Badziaka, M. M.]; YAROSHEVICH, G. B. [Yarashevich, H. B.]

Effect of the heating rate on the restoration of the physical
and mechanical properties of cold-deformed iron. Vestsi AN
BSSR. Ser. fiz.-tekhn. nav. no.1:103-110 '63.
(MIRA 16:4)

(Iron—Metallurgy)

S/250/63/007/002/008/008
A059/A126

AUTHORS: Bodyako, M. N., Yaroshevich, G. B.

TITLE: Substructural changes of cold-deformed nickel and copper in the stage of recovery through induction heating

PERIODICAL: Doklady Akademii nauk BSSR, v. 7, no. 2, 1963, 124 - 126

TEXT: The influence of temperature and speed of heating on the change of the relative distortion $\Delta a/a$ of the crystal lattice of the second kind and of coherent x-ray scattering blocks was studied. Samples 20 x 10 mm in diameter, with different degrees of deformation (5, 10, 15, 30, 50, and 75%) were heated in the power generator MF3-102 (MGZ-102) with a speed of 30 and 300 degrees per second, and temperature was controlled with the thermoelectric pyrometer TЭП-1 (TEP-1) developed at the ФТИ АН БССР (FTI AS BSSR). The samples were subsequently sawed under cooling, perpendicular to the direction of sagging, etched with concentrated HNO_3 to dissolve the riveted metal layer, and x-ray photographs taken with the ionization device YPC-50 (URS-50). The copper standard was annealed at 510°C and the nickel standard at 800°C for 45 minutes with subsequent cooling

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Substructural changes of cold-deformed nickel...

S/250/63/007/002/008/008
A059/A126

down with the furnace. The fact that the relief of distortions of the crystal lattice in copper takes place more quickly than in nickel is explained to be due to the smaller interatomic forces in copper. The change of the distortions of the crystal lattice depends on the speed of induction heating, both for nickel and copper. When, for instance, a temperature of 200°C is reached at the rate of 30 degrees/second, the value of $\Delta a/a$ for copper is $1.1 \cdot 10^{-4}$ and at the rate of 300 degrees/second - $2.25 \cdot 10^{-4}$, while the corresponding values for nickel were $9.2 \cdot 10^{-4}$ and $10.6 \cdot 10^{-4}$, respectively. The intensity of growth D of the coherent-scattering blocks when a temperature of 200°C is reached at the rate of 30 degrees per second is $4.75 \cdot 10^{-6}$ cm and at a rate of 300 degrees per second - $4.35 \cdot 10^{-6}$ cm for copper, while the corresponding D values for nickel are $4.5 \cdot 10^{-6}$ cm and $4.0 \cdot 10^{-6}$ cm, respectively. Thus, the stage of recovery is characterized chiefly by the decrease of the relative distortions of the crystal lattice, while the intense growth of the coherent-scattering blocks should take place already in the stage of recrystallization. There are 1 figure and 1 table.

ASSOCIATION: Fiziko-tekhnicheskii institut AN BSSR (Physicotechnical Institute of the AS BSSR)

PRESENTED: by V. P. Severdenko, Academician of the AS BSSR

SUBMITTED: October 30, 1962

Card 2/2

BODYAKO, M.N. [Badziaka, M.M.]; ASTAPCHIK, S.A. [Astapchyk, S.A.]

Theory of recrystallization with continuous heating. Vestsi AN BSSR.
Ser. Fiz.-tekh. nav. no.2:115-119 '63. (MIRA 17:1)

BODYAKO, M.N.; YAROSHEVICH, G.B.; ASTAFCHIK, S.A.

Effect of the structural state on the integral intensity of
X-ray lines. Dokl. AN BSSR 7 no.11:752-755 11 '63. (MIRA 17:9)

1. Fiziko-tekhnicheskiy institut AN BSSR. Predstavleno akademikom
AN BSSR V.P. Severdenko.

BODYAZO, M.N. [Badziuka, M.M.]; ASTAPCHIE, S.A. [Astapshyk, S.S.];
YAROSHEVICH, G.B. [Iarashovich, H.B.]

Critical recrystallization during induction heating. Vestsi AN BSSR.
Ser. fiz.-tekh. nav. no.2:124-129 '64. (KIRA 18:1)

BODYAKO, M.N. [Badziaka, M.K.]; ASTASHEV, S.A. [Astashev, S.A.]

Recrystallization structure and mechanical properties of brass
in rapid continuous heating. Vestnik AN BSSR, Ser. fiz.-tekh. nav.
no. 4: 100-106 '64. (MIRA 18:3)

ACCESSION NR: AP4042729

S/0250/64/008/006/0386/0389

AUTHOR: Bodyako, M. N., Astapchik, S. A.

TITLE: Experimental verification of the thermokinetic equations of recrystallization

SOURCE: AN BSSR. Doklady*, v. 8, no. 6. 1964, 386-389

TOPIC TAGS: recrystallization, thermokinetics, copper, copper recrystallization

ABSTRACT: The authors report the results of an experiment in which they determined the degree of recrystallization (C_p) of pure copper during continuous heating at an accelerated rate as a function of the temperature (T) and the time of complete recrystallization (t). Samples of copper were deformed by 50% and heated at rates of 35, 60, 100, 150, 200 and 300C/sec. to various temperatures, after which the sample was quickly cooled in water. After heating was completed the temperature boundaries and degree of recrystallization were determined by known roentgenographic techniques. As shown in Figs. 1 and 2 of the Enclosure, comparison of these results with theoretical predictions on the basis of

$$C_p = 1 - \exp \left\{ - \frac{AT^2}{v^2} \exp \left(- \frac{4U + 17}{RT} \right) \right\} \quad (1)$$

Card 1/4 $C_p = \frac{V_p}{V_0} ; A = \frac{\pi}{3} \alpha \beta^3 \left(\frac{R}{U} \right)^3 ; \beta = \frac{4}{3} \pi \frac{\gamma T_s \Delta F_0}{h} ; \alpha = \frac{K}{h} ; T_s =$

ACCESSION NR: AP4042729

$$I = \left\{ \frac{-\ln(1 - \epsilon_p) \Delta T^3}{AT^3} \right\}^{1/2} \exp \left(\frac{U + \frac{1}{4} W}{RT} \right) \quad (2)$$

revealed good agreement. Orig. art. has: 6 formulas and 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy Institut AN BSSR (Institute of Physics and Technology, AN BSSR)

SUBMITTED: 11Oct63

ENCL: 02

SUB CODE: MM, TD

NO REF SOV: 001

OTHER: 006

Card 2/4

ACCESSION NR: AP4042729

ENCLOSURE: 01

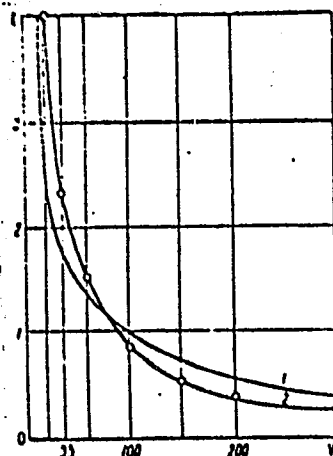


Fig. 1. Dependence of the time of complete recrystallization (seconds) on the speed of heating (°C/second): 1 - theoretical values; 2 - experimental data.

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ACCESSION NR: AP4042729

ENCLOSURE: 02

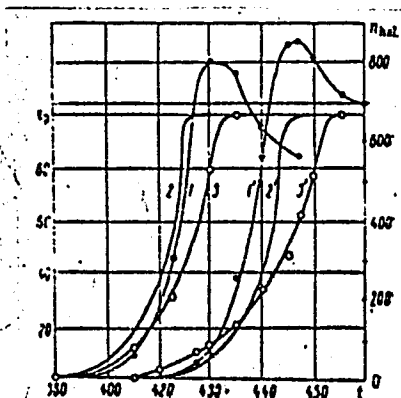


Fig. 2. Dependence of the degree of recrystallization X , o/o (2, 2' and 3, 3') and the set of points n_{hkl} on the Debye circle (1, 1) on temperature: 1, 2, 3- for speeds of heating of 35° C/sec.; 1', 2', 3' - for 200° C/sec.; 2, 2'- theoretical calculations; 3, 3' - experimental data.

Card 4/4

BODYAKO, M.N.; ASTAPCHIK, S.A.

Recrystallization of brass during induction heating. Dokl. AN BSSR
8 no.9:601-603 S '64. (MIRA 17:12)

1. Fiziko-tekhnicheskiy institut AN Belorusskoy SSR.

BODYAKO, M.D.; PETARCHIK, S.A.

Activation energy of nonisothermal recrystallization. Dokl. AN BSSR
9 no.1:27-30 Ja '65. (MIRA 18:10)

1. Fiziko-tekhnicheskiy institut AN BSSR.

BODYAKO, M.N.; ASTAPCHIK, S.A.

Diagrams of brass recrystallization under the effect of non-isothermal heating. Dokl. AN BSSR 9 no. 4:252-254 Ap '65
(MIRA 19:1)

1. Fiziko-tekhnicheskiy institut AN BSSR. Submitted February 25, 1964.

BODYAKO, V.

Determining the fatness of beef cattle. Mias.ind.SSSR 33
no.2:27-29 '62. (MIRA 15:5)

1. Gosudarstvennyy komitet zagotovok Soveta Ministrov SSSR.
(Cattle—Grading)

BODYAKO, V.

New instruction on the order of delivery and acceptance inspection of
cattle, poultry and rabbits. Mias.ind. SSSR 34 no.1:43-45 '63.
(MIRA 16:4)

1. Gosudarstvennyy komitet zagotovok Soveta Ministrov SSSR.
(Animal industry—Laws and legislation)

BODYAKO, V.S., kand.med.nauk; PASHKOVSKAYA, G.I., nauchnyy sotrudnik;
IRGER, N.S., nauchnyy sotrudnik

Industrial hygiene in glass works. Gig.1 san 26 no.12:25-30
D '61. (MIRA 15:9)

1. Iz Belorusskogo nauchno-issledovatel'skogo sanitarno-
gigiyenicheskogo instituta.

(WHITE RUSSIA—GLASS MANUFACTURE—HYGIENIC ASPECTS)
(GLASSWORKERS—DISEASES AND HYGIENE)

BODYAKO, V.; PASHKOVSKAYA, G.; IRGER, N.

Greater attention to industrial hygiene in the peat industries.
Zdrav.Bel. 8 no.5:46-48 My '62. (MIRA 15:10)

1. Belorusskiy nachno-issledovatel'skiy sanitarno-gigiyenicheskiy
institut.

(PEAT INDUSTRY—HYGIENIC ASPECTS)

ACCESSION NR: AR4034731

8/0124/64/000/003/B073/B073

SOURCE: Ref. zh. Mekhan., Abs. 3B462

AUTHOR: Bodayakov, G. I.

TITLE: Flow of a liquid between two cylinders, one of which is slightly off-round

CITED SOURCE: Sb. Resheniye inzh. zadach na elektron. vychisl. mashinakh. L., 1963, 159-171

TOPIC TAGS: hydrodynamics, viscous liquid, complex variant, Bubnov-Galerkin integration method, computer technique, bearing

TRANSLATION: The plane movement is observed of a viscous noncompressible liquid between two cylinders, one of which is round and rotates, and the other, a static cylinder, is only slightly out of round, and is coaxial with the rotating cylinder.

The problem is solved in complex variants by depicting the area of flow on the round area. In integrating complete equations of motion, the function of the current is introduced. It is proposed to do integration by setting up the function of current in the form of a stage-by-stage breaking down of a small parameter, which determines

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ACCESSION NR: AR4034731

the deviation of the cylinder profile from the round. In integrating the system of equations, it is recommended that the Bubnov-Galerkin method be used. A partial solution is shown of the problem for a bearing in the first approximation, from which the characteristics of the bearing can be obtained by using a computer.

DATE ACQ: 02Apr64

SUB CODE: AI, MM

ENCL: 00

Card 2/2

L 41773-65 EWT(1)/ENP(m)/EWA(d)/FCS(k)/EWA(1) Pd-1

ACCESSION NR: AP5005762

S/0170/65/008/001/0041/0047

AUTHOR: Bodyakov, G. I.

TITLE: Nonstationary flow of a viscous incompressible liquid between two cylinders

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8, no. 1, 1965, 41-47

TOPIC TAGS: nonstationary flow, incompressible liquid, viscous liquid, roller bearing, Reynolds number, friction force

ABSTRACT: The flow in question is produced between a moving external cylinder, having an arbitrary shape that differs little from circular, and an internal cylinder which is circular. Both cylinders rotate about an axis through the origin. The flow equations are derived by using conformal mapping of the annular region, filled with the liquid, on a circular annulus, and by using the properties of elliptic functions. The results are used to interpret some phenomena which occur in high-speed lubricated bearings, with special attention to the case of zero and arbitrarily large Reynolds numbers. Orig. art. has: 24 formulas.

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41773-65

ACCESSION NR: AP5005762

ASSOCIATION: Otdeleniye matematicheskogo instituta im. V. A. Steklova, Leningrad
(Leningrad Division of Mathematics Institute)

SUBMITTED: 13Feb64

ENCL: 00

SUB CODE: NR

NR REF SOV: 006

OTHER: 001

am
Card 2/2

ACC NR: AP6034541 (N) SOURCE CODE: UR/0421/66/000/005/0076/0077

AUTHOR: Bodyakov, G. I. (Leningrad)

ORG: None

TITLE: Small parameter method for determining the motion of a viscous incompressible fluid in a thrust bearing

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 5, 1966, 70-77

TOPIC TAGS: viscous fluid, incompressible fluid, journal bearing, motion mechanics

ABSTRACT: The author considers plane stationary motion of a viscous incompressible fluid between two surfaces. The fixed surface is given by the equation $y=h[1+\epsilon f(x/h)]$, where the function $f(x/h=h)$ gives the deviation of this surface from the plane $y=h$ (h and ϵ are constants). The second surface is a plane which moves with a constant velocity along the x -axis remaining parallel to the plane $y=h$. The problem is solved by the small parameter method, i. e. it is assumed that the parameter ϵ is small in comparison with unity and that the region occupied by the fluid nearly coincides with the strip $y'=0$ and $y'=1$ where x' and y' are dimensionless variables which are given in terms of the old variables by the relationships $x=hx'$, $y=hy'$. A solution close to Couette flow is sought for the equation

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ACC NR: AP6034541

$$\Delta^2 \psi - R \frac{D(\Delta \psi, \psi)}{D(x, y)} = 0$$

with the boundary conditions

$$\psi = 0, \quad \frac{\partial \psi}{\partial n} = 1, \quad y = 0; \quad \psi = \text{const}, \quad \frac{\partial \psi}{\partial n} = 0, \quad y = 1 + \varepsilon f(x')$$

$$\Delta = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}, \quad \frac{D(u, v)}{D(x, y)} = \frac{\partial u}{\partial x} \frac{\partial v}{\partial y} - \frac{\partial u}{\partial y} \frac{\partial v}{\partial x}, \quad R = \frac{U h}{\nu}$$

where ψ is the dimensionless stream function, R is the Reynolds number and ν is the kinematic viscosity. It is assumed that Couette flow takes place on the left end of the strip while flow with parallel stream lines is set up on the right. The solvability of the linear equations derived by the small parameter method is studied and the radius of convergence of the resultant series is determined. Orig. art. has: 47 formulas.

SUB CODE: 20/ SUBM DATE: 14Jun65/ ORIG REF: 003

Card 2/2

BODYAKSHIN, A.I.

Method for calculating the reactance of turbogenerators. Elektro-
energetika no.7:96-104 '63. (MIRA 16:9)

BODYAKSHIN, A.I., inzhener.

To the editor of "Vestnik elektromyashlennost'." Vest.elektroprom.
27 no.12:72 D '56. (MLRA 10:1)

1. Energeticheskiy institut Akademii nauk SSSR.
(Electric motors--Repairing)

S/143/62/000/002/002/005
D238/D301

AUTHOR: Bodyakshin, A.I., Engineer

TITLE: Method for calculating a magnetic field taking account
of saturation of the ferromagnetic medium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Energetika,
no. 2, 1962, 14 - 19

TEXT: The paper provides a method for calculating the field in the ferromagnetic medium to any desired degree of accuracy as required in practice, as distinct from the usual methods affording only an approximate calculation, being based on simplified concepts of the field in the steel of an electric machine. All calculations can be performed on digital computers. Starting from the familiar system of equations describing the magnetic field, the two-dimensional problem is first considered; accuracy of the subsequent approximate numerical solution will be a function of the fineness of the net consisting of straight parallels to the x and y axes. In some cases cylindrical coordinates are more suitable than Cartesian coordinates. ✓

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Method for calculating a magnetic ...

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D238/D301

tes. The method is then extended to the three-dimensional problem. Practical confirmation was obtained for calculating the magnetic field of an electric machine, employing a digital computer. The method is also valid for calculating an electrostatic field, a thermal field and other vector fields. There are 3 figures. ✓

ASSOCIATION: Energeticheskiy institut imeni G.M. Krzhizhanovskogo
AN SSSR (Power Engineering Institute imeni G.M.
Krzhibzhanovskiy, AS USSR)

SUBMITTED: July 15, 1961

Card 2/2

BODYAKSHIN, A.I., inzh.

Method for calculating a magnetic field with consideration of
the saturation of a ferromagnetic media. Izv. vys. ucheb.
zav.; energ. 5 no.2:14-19 F '62. (MIRA 15:3)

1. Energeticheskiy institut imeni G.M.Khazhanchikovskogo AN SSSR.
(Magnetic fields)

BOYAZHINA, Z.I., kand. tekhn. nauk

Improving the quality and increasing the variety of drying oils.
Mosl.-zhir. prom. 25 no.7:12-13 '59. (MIRA 12:12)
(Drying oils)

BODYANOV, P.S., Cand Tech Sci -- (diss) "Concerning the problem
of longitudinal stresses ^{upon mutual impact of} ~~upon freight cars hit together.~~"

Dnepropetrovsk, 1958, 9 pp (Min of Railways USSR. Dnepropetrovsk

Inst of Engineers of Railroad Transport) 110 copies

(KL, 27-58, 108)

BODYANOV, P.S., assistant

~~Longitudinal forces resulting from the impact of railroad cars~~
against each other. Trudy DIIT no.26:211-234 '58. (MIRA 11:7)
(Railroads--Freight cars)

BODYANOV, P.S., assistant

Experimental investigation of forces arising from the impact made
by uncoupled railroad cars against each other. Trudy DIIT no.26:
259-269 '58. (MIRA 11:7)

(Car couplings) (Railroads--Cars)

BODYANSKIY, B. A.

PA 15/49T62

USSR/Engineering
Concrete
Construction Industry

Jul 48

"Utilization of a Natural Gravel-Sand Mixture for
Constructing the Maykop Hydroelectric Power
Station," B. A. Bodyanskiy, Engr, 1½ pp

"Gidrotekh Stroi" No 7

Describes utilization of natural gravel-sand
mixture for concrete, giving analysis tables.

15/49T62

BODYANSKIY4B 8A8

600

1. BODYANSKIY, B.A.; Inzh.

2. USSR (600)

4. Cement

7. Method of increasing the activity of cement. Biul. stroe, tekhn. 9 no. 10 (1950)
Zavod shlakobetonnykh izdeliy Upravleniya Stroitel'stva Dvortsa Sovetov

9. Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED

BODYANSKIY4B8A8

600

1. BODYANSKIY, B. A.; Inzh.

2. USSR (600)

4. Concrete Construction - Formwork

7. Grease for molds and forms. Biul stroi. tekhn. 9, no. 8, April 1952.
Zavod Zhelezobetonnykh Izdeliy Upravleniya Stroitel'stva Dvortsa Sovetov

9. Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED

USSR/Engineering - Construction, 15 May 52

Materials

"Methods for Increasing the Activity of Cement,"
B. A. Bodyanskiy, Engr, Plant of Blast-Concrete Pro-
ducts of Admin for Constructing the Palace of So-
viets

PA 228774
"Byul Stroit Tekh" No 10, p 24

Briefly describes simple installation for addnl
activation of cement. Tunnel made of sheet steel
has vertical rotating axis with chain lengths at-
tached. Grout upon leaving tunnel after 20-min

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treatment has fine jelly-like structure with fatty
glass and can absorb considerably more sand than
grout prepd in usual way. Cement activity increases
1.5-2 times resulting in conservation of cement in
concrete by 20-25%.

228774

BODYANSKIY, B. A.

BODYANSKIY, B.A., inzh.

Injecting mixtures in cementing concretes. Biul. stroi. tekhn. 12
no.1:11 Ja '55. (MIRA 11:12)

1. Trast po montazhu elektrostantsiy, stroitel'stvu i montazhu liniy
elektroperedachi i podstantsiy Ministerstva elektricheskikh stantsiy
SSSR.

(Cement)

BODYANSKIY, B.A., inzhener; KOSMACHEV, A.D., inzhener.

Rapid method of determining the heat treatment for reinforced
concrete products based on various cements. *Biul.stroi.tekh.* 13
no.7:15-16 JI '56. (MLRA 9:9)

1.Zaved No.17 zhelezobetonnykh izdeliy.
(Reinforced concrete)

IVAKIN, M.; SITNIK, M. [Sytnyk, M.] (Breusivka, Poltavskoi obl.); BODYANSKIY,
O. [Bodians'kyi, O.] (Petropol', Zaporozhskoy obl.)

Editor's mail. Znan. ta pratsia no.7:15 J1 '62.

(MIRA 15:7)

1. Zavod "Serp i molot", g. Khar'kov (for Ivakin).
(Jumping) (Kapulovka—Folk art)

SKOLKA, V. Khilarius; BODYANU, N. [Bodeanu, N.]

Studies on the phytoplankton of the Pre-Bosporan area
of the Black Sea. Rev biol 8 no. 1: 89-104 '63.

1. Institut Biologii im. Tr. Sevulesku Akademii RNR,
Laboratoriya okeanologii.

BODYANSKIY, Vadim Lazarevich; SHAGAL', Vladimir Eduardovich;
LEBEDEV, Ye.A., otv. red.; DZHUR, I.M., red.

[Modern Libya; a reference book] Sovremennaiia Liviia;
spravochnik. Moskva, Nauka, 1965. 300 p.
(MIRA 19:1)

131 AND 130 CROD81													132 AND 131 CROD81																																											
PROCESSES AND PROPERTIES INDEX																																																								
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Influence of oxygen starvation on placenta development. V. I. Kolyuzhina, <i>Izvestiya Gikhol.</i> 1948, No. 5, 5-9. White mice and rabbits were subjected to prolonged O deficiency either from the 7th to 10th day of pregnancy or from 10th to 15th day. Oxygen starvation can cause disturbance of implantation of the fertilized ova; if done during placentation, the circulatory system development is arrested and in prolonged cases the placental development is hindered. The placental content of glycogen and fats is also considerably decreased. G. M. Kosolapoff																																																								
ASD-51A METALLOGICAL LITERATURE CLASSIFICATION																																																								
<table border="1"> <tr> <td>13000</td> <td>13100</td> <td>13200</td> <td>13300</td> <td>13400</td> <td>13500</td> <td>13600</td> <td>13700</td> <td>13800</td> <td>13900</td> <td>14000</td> <td>14100</td> <td>14200</td> <td>14300</td> <td>14400</td> <td>14500</td> <td>14600</td> <td>14700</td> <td>14800</td> <td>14900</td> <td>15000</td> <td>15100</td> <td>15200</td> <td>15300</td> <td>15400</td> <td>15500</td> <td>15600</td> <td>15700</td> <td>15800</td> <td>15900</td> <td>16000</td> </tr> </table>																										13000	13100	13200	13300	13400	13500	13600	13700	13800	13900	14000	14100	14200	14300	14400	14500	14600	14700	14800	14900	15000	15100	15200	15300	15400	15500	15600	15700	15800	15900	16000
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BODYAZHINA, V. I., Prof.

Fetus, Death of

Problem on intra-uterine fetal asphyxia; some considerations on Prof. A. P. Nikolaev's book "Prevention and therapy of intra-uterine fetal asphyxia." Reviewed by Prof. V. I. Bodyazhina. Akush. i gin. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

BODYAZHINA, V.I., professor (Moscow).

Intrauterine development of embryo in oxygen deficiency. Akush. i gin.
no.3:3-9 My-Je '53. (MLRA 6:7)

(Anoxemia) (Embryology, Human)

BODYAZHINA V. I.

*Influence of environment on development of the foetus in utero (Russian text)
AKUS. I GINEK. 1953, 5 (46-52) Illus. 4

Experiments on mice showed that the intrauterine foetus is sensitive to lack of oxygen. Other environmental conditions of the maternal organism influence the development of the foetus and this can be explained by the lack of a developed CNS and the consequent lack of adaptation mechanisms to change environmental conditions.

Körbler - Zagreb

SO: ^CEXERPTA MEDICA, Section II Vol. 7 No. 11
7

BODYAZHINA, V.I.

Certain data on the effect of environment on intrauterine development
of fetus. Akush. gin. no.5:46-52 Sept-Oct 1953. (CLML 25:4)

1. Professor. 2. Moscow.

BODYAZHINA, V.I., professor (Moscow).

Basic physiological data on the menstrual cycle. Fel'd.i akush.
no.2:12-16 F '54. (MLRA 7:2)
(Menstruation)

BODYAZHINA, V.I., professor (Moskva)

Secretion disorders of the female genitalia (whites). Vol'd. 1 akush.
no. 11:6-10 N 154. (MLRA 7:12)
(LEUCORRHEA)

BODYAZHINA, V.I.

BODYAZHINA, V.I., professor; VANINA, L.V., kandidat meditsinskikh nauk

The condition of newborn infants born to mothers with heart failure. Akush. i gin. no.3:37-42 My-Je '55 (MLRA 8:10)

1. Iz kafedry akusherstva i ginekologii (sav.-prof. K.N.Zhmakin)
I Moskovskogo ordena Lenina meditsinskogo instituta.

(HEART DISEASE

in mothers, eff. on newborn inf.)

(INFANT, NEWBORN

eff. of heart dis. in mother)

BODYAZHINA, V.I., professor (Moscow)

Underdevelopment of the sexual organs (infantilism) in women.
Fel'd. i akush. no.10:32-35 0 '55. (MIRA8:12)
(INFANTILISM)

BODYAZHINA, V.I., professor (Moskva)

~~adnexitis~~
Inflammation of the adnexa uteri (adnexitis, salpingo-oophoritis)
V.I. Bodiaschina. Fel'd. i akush. no.11:33-36 N '55. (MIRA 9:2)

(OVARIES-INFLAMMATION)(FALLOPIAN TUBES-INFLAMMATION)

BODYAZHINA, V.I., professor; VIKHLYAYEVA, Ye.M.; YEFIMOVA, Yu.F.

Results of multiple pregnancy with the present-day organization of obstetrics. Sovet.med. 19 no.5:8-14 My '55. (MLRA 8:8)

1.Iz kafedry akusherstva i ginekologii (zav.-prof. K.N.Zhmakin)
I Moskovskogo ordena Lenina meditsinskogo instituta.

(PREGNANCY, MULTIPLE
management, results)

BODYAZHINA, V.I., professor

Intrauterine and postnatal development of infants in certain pregnancy diseases. *Pediatrics* 39 no.5:3-7 8-0 '56. (MLRA 10:1)

1. Iz kafedry akusherstva i ginekologii (sav. - prof. I.N.Zhaskin)
I Moskovskogo ordena Lenina meditsinskogo instituta.

(PREGNANCY, complications,
eff. of maternal dis. on pre- & postnatal develop:
of inf. (Rus))

BODYAZHINA, V.I., professor (Moskva)

Secretory function of female genitalia and causes of disorders.
Sov.med. 21 no.2:24-30 F '57. (MLRA 10:6)
(GYNECOLOGICAL DISEASES
disord. in genital secretions)

BODYAZHINA, V. I.

BODYAZHINA, V.I., prof.; GRANAT, N.Ye., kand.med.nauk (Moskva)

The welfare of women in the U.S.S.R. Sov.med. 21 no.10:45-52 0 '57.
(MATERNAL WELFARE (MIRA 11:1)
in Russia)

BODYAZHINA, Vera Il'ichna, prof.; ZHMAKIN, Konstantin Nikolayevich,
prof.; GRYAZNOVA, I.M., red.; BEL'CHIKOVA, Yu.S., tekhn.red.

[Textbook of gynecology] Uchebnik ginekologii. Moskva, Gos.
izd-vo med. lit-ry, 1958. 366 p. (MIRA 12:1)

1. Kafedra akusherstva i ginekologii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (for Bodyazhina).
2. Zaveduyushchiy kafedroy akusherstva i ginekologii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (for Zhmakin).

(GYNECOLOGY)

BODYAZHINA, V.I.

[Manual of obstetrics for medical schools] Uchebnik akusherstva;
dlia meditsinskikh uchilishch. Moskva, Medgiz, 1958. 437 p.
(OBSTETRICS) (MIRA 11:9)

BODYAZHINA, V.I., prof.; KRAVKOVA, Ye.V., kand.med.nauk

Some data on the course of labor and the state of newborn in anemias of pregnancy. Sov.med. 22 no.2:104-109 F '58. (MIRA 11:4)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. K.N.Zhmakin)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova.

(PREGNANCY, compl.

anemia, eff. on course of labor & newborn (Rus))

(ANEMIA, in pregn.

eff. on course of labor & newborn (Rus))

(INFANT, NEWBORN

eff.of maternal anemia (Rus))

(LABOR

eff. of anemia on course (Rus))

BODYAZHINA, V.I., prof. (Moskva)

Basic principles in the prevention and treatment of eclampsia.
Vel'd. i akush. 23 no.1:11-17 Ja '58. (MIRA 11:3)
(CONVULSIONS)

BODYAZHINA, V.I., prof. (Moskva)

Rupture of the uterus. Sov.med. 23 no.1:42-50 Ja '59.

(MIRA 12:2)

(UTERUS, rupt.
in labor (Rus))
(LABOR, compl.
uterus rupt. (Rus))

BODYAZHINA, V.I., prof. (Moskva)

Uterine hemorrhages associated with an anovular cycle (hemorrhagic metropathy). Sov. med. 23 no.5:3-10 My '59. (MIRA 12:7)

(OVULATION

anovular cycle, relation to pathogen of hemorrhagic metropathy (Rus))

(MENORRHAGIA AND METROORRHAGIA, etiol. & pathogen. relation to anovular cycle (Rus))

BODYAZHINA, V.I., prof. (Moskva)

Retroflexio uteri. Fel'd. 1 akush. 24 no.5:8-13 My '59.
(MIRA 12:8)

(UTERUS--DISPLACEMENTS)

BODYAZHINA, V.I., prof. (Moskva)

Female sex hormones. Fel'd. i akush. 24 no.12:9-13 D '59.

(MIRA 13:2)

(HORMONES, SEX)

BODYAZHINA, V.I., prof.; GRANAT, N.Ye., kand.meditsinskikh nauk; OSTROVITYANOVA,
L.V. (Moskva)

Some problems in the organization of gynecological service. Sev.
zdrav. 19 no.6:16-20 '60. (MIRA 13:9)
(GYNECOLOGY)

BODYAZHINA, V.I., prof.; CHIZHIKOVA, L.L.

Some problems in the clinical aspects and treatment of late toxicoses of pregnancy. Sov. med. 24 no. 7:3-11 JI '60. (MIRA 13:8)

1. Iz kafedry akusherstva i ginakologii I Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova (zav. - prof. K.N. Zhmakin) i rodil'nogo doma No. 15 (glavnyy vrach M.A. Afraymovich).
(PREGNANCY, COMPLICATED)

BCDYAZHINA, V.I.

Experience in the prevention of radiation injury to the placenta
with mercamine. Med. rad. 5 no.9:88-90 S '60. (MIRA 13:12)
(PLACENTA) (ETHYLAMINE)
(RADIATION PROTECTION)

BODYIAZHINA, Vera Il'inichna; PORAY-KOSHITS, K.V., red.; SENCHILO, K.K.,
tekh. red.

[Obstetrics textbook] Uchebnik akusherstva. 2. izd. Moskva,
Medgiz, 1961. 461 p. (MIRA 15:3)

(OBSTETRICS)

PODYAZHINA, V.I., prof.

Study of the problem of antenatal protection of the fetus.

Akush.i gin. no.6:16-21 '61.

(MIRA 14:12)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. K.N. Zhmakin) I Moskovskogo ordena Lenina meditsinskogo instituta.
(PRENATAL CARE)

FODYAZHINA, V.I., prof.

Treatment of infected abortions. Sov. med. 25 no.10:99-105 0 '61.
(ABORTION...COMPLICATIONS AND SEQUELAE) (MIRA 15:1)

BODYAZHINA, V.I., prof. (Moskva)

Causes of pain sensations in gynecologic patients. Fel'd. 1
akush. 26 no.10:21-25 0 '61. (MIRA 14:11)
(PAIN) (WOMEN--DISEASES)

BODYAZHINA, V.I.; KIRYUSHCHENKOV, A.P.; POBEDINSKIY, M.N.; POBEDINSKIY, N.M.; LANDAU-TYLKINA, S.P., red.; MIRONOVA, A.M., tekhn. red.

[Effect of ionizing radiation on the genitalia, pregnancy and the intrauterine fetus] Vliianie ioniziruiushchei radiatsii na polovye zhelezy, beremennost' i vmutritroinnyi plod. Moskva, Medgiz, 1962. 181 p. (MIRA 15:4)

(RADIATION—PHYSIOLOGICAL EFFECT)

(UTERUS, PREGNANT)

(GENERATIVE ORGANS, FEMALE)

SKORNYAKOVA, L.K., red.; BODYAZHINA, V.I., prof., red.; BARTOL'S, A.V., red.

[Ways of decreasing perinatal mortality; transactions] Puti snizhenia perinatal'noi smertnosti; trudy. Pod red. V.I. Bodiazhinoi i L.K.Skorniakovoi. Moskva, Meditsina, 1964. 31 p. (MIRA 17:6)

1. Simpozium po bor'be s perinatal'noy smertnost'yu, Moscow, 1962.

BODYAZHINA, V.I.; SMIRNOVA, A.F.

Causes of death in gynecological diseases. Vop.okh.mat.1 det. 7
no.4:62-66 Ap '62. (MIRA 15:11)
(GYNECOLOGY—STATISTICS) (MORTALITY)

BODYAZHINA, Vera Il'ichna; PORAY-KOSHITS, K.V., red.; BUKOVSKAYA,
N.A., tekhn.red.

[Problems of the etiology and prevention of disorders in
the development of the fetus] Voprosy etiologii i pro-
filaktiki narushenii razvitiia ploda. Moskva, Medgiz,
1963. 205 p. (MIRA 16:12)

(FETUS—DISEASES)

BODYAZHINA, V.I., prof.

Mechanism of the action of injurious factors on the fetus.
Akush. i gin. no.2:3 - 8'63. (MIRA 16:10)

1. Iz Instituta akusherstva i ginekologii (dir. - prof. O.V.
Makeyeva) Ministerstva zdravookhraneniya RSFSR.
(FETUS--DISEASES)

BODYAZHINA, Vera Il'inichna MAZUROVA, V.M., red.

[Manual of obstetrics] Uchebnik akusherstva. 3 izd., dop.
Moskva, Meditsina, 1964. 451 p. (MIRA 17:8)

PETROVA, Yelizaveta Nikolayevna; BODYAZHINA, V.I., red.

[Histological diagnosis of diseases of the uterus] Gistologicheskaya diagnostika zabolevanii matki. 2. izd., dop. Moskva, Meditsina, 1964. 169 p. (MIRA 17:11)

BODYAZHINA, V.I., prof.; KURDYUKOVA, V.G.

Effect of pathogenic factors on permeability of the placenta
for staphylococci. Akush. i gin. 40 no.1:8-13 Ja-F '64.

(MIRA 17:8)

1. Institut akusherstva i ginekologii (dir. - prof. O.V.
Makeyeva) Ministerstva zdravookhraneniya SSSR i TSentral'naya
nauchno-issledovatel'skaya laboratoriya (zav. - dotsent A.S.
Chechulin) I Moskovskogo ordena Lenina meditsinskogo insti-
tuta imeni Sechenova.

BODYAZHINA, V.I., prof.

Effect of medicinal substances on the fetus. Akush. i gin. 40
no.5:22-28 S-O '64. (MIRA 18:5)

1. Institut akusherstva i ginekologii (dir. - prof. O.V.Makeyeva)
Ministerstva zdravookhraneniya SSSR, Moskva.

CP 26

PROCESSES AND PATENTED METHODS

Obtaining drying oil from sardine oil. V. Varlamov

1 and Z. Rodynskina. *Masloboino Zhirovno Delo* 14, No. 3, 24-30 (1958). —On heating refined sardine oil in a Cu flask with superheated steam at 270-80° in the presence of oxides and sol. salts of Ca, Ba, Zn, Pb and Mn until 35-45% of solid fatty acids is distd. off, a distn. residue of polymerized highly unsatd. glycerides is obtained. This product when dissolved in white spirit gives quickly drying coats of high luster, hardness, elasticity and resistance to water comparable to the paints obtained with linseed oil. The solid acids when deodorized and hydrogenated give fat mixts. suitable for soap making. C. B.

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

9300-1700119

9300-1700119

9300-1700119

9300-1700119

26

Technological scheme of obtaining drying oil from sardine oil. V. Varlamov, Z. Bolyazhina and B. Nepomnyashchaya. *Masloboina Zhirnot Delo* 16, No. 2, 13-16 (1940); cf. C. A. 32, 5889.—The application of the previous method to cum. production is discussed. C. B.

ASB-25A METALLURGICAL LITERATURE CLASSIFICATION

26

CA

Making naphthenate driers. V. S. Varlamov, Z. I. Bodayazhina and N. M. Tikhomirova. *Mashobolna-Zhira-ova Prom.* 10, No. 5/6, 42-5(1940).—A pale naphthenic acid fraction is obtained in 88.8% yield by distg. acidol (from Baku oil) under 40-50 mm. pressure. Tests show that Mn:Ca:Fe driers made from this fraction are even more active than the standard Mn:Ca drier. Tabulated data show the color, acid no., drying time and film hardness of varnishes made with Mn:Ph, Mn:Ca, Mn:Zn, Mn:Fe, Pb:Fe, Mn:Pb:Ca, Mn:Pb:Zn, Mn:Pb:Fe and Mn:Ca:Fe driers from this naphthenic acid fraction. Corrosion is a serious problem in making these driers. Cr-plated Fe equipment has good resistance, or metal surfaces can be protected with a resin finish such as Bake-lite No. 86 (wt. loss 0.0481 g./sq. m./hr. at 100°). Of several nonferrous metals Al showed no wt. loss in 150 hrs. at 180-200°, while Cu and its alloys were more or less severely corroded.

Julian P. Smith

26

Drying oils. V. N. Vasilanov and Z. I. Rudyashina.
U.S.S.R. 67,272, Oct. 31, 1940. Addn. to U.S.S.R.
59,845 (C.A. 30, 10009). Hemidrying or nondrying oils
are polymerized either directly or after isomerization at
240°, then treated with superheated steam in the presence
of ZnO, CaO, MnO₂, or PbO. M. Hosen

BODYAZHINA Z.I.

SERGEYEV, A., kandidat tekhnicheskikh nauk; IRODOV, M.V., kandidat tekhnicheskikh nauk; ARTOMONOV, P.A., kandidat khimicheskikh nauk; NEVOLIN, F.V., kandidat tekhnicheskikh nauk; GRAUERMAN, L.F. L.A., kandidat tekhnicheskikh nauk; BODYAZHINA, Z.I., kandidat tekhnicheskikh nauk.

"Technology of processing fats." B.N.Tiutiunnikov, P.V.Naumenko, I.M.Tovbin, G.G.Faniev. Reviewed by A.Sergeev, M.V.Iredov et al. Masl.-zhir.prom. 19 no.6:31-32 '54. (MIRA 7:10)
(Oils and fats) (Tiutiunnikov, B.N.) (Naumenko, P.V.)

00D YH 2H 10A, 2-1

USSR .

✓Rapid method for determination of moisture. Z. I.
Bodiyazhina and G. V. Zarembo. *Masloboino-Zhirnyye*
Prav No. 1, 23-5(1955).--Description with diagrams
of a combined infrared drying and weighing app.
Vladimir N. Krukovsky.

TYUTYUNNIKOV, Boris Nikanorovich, professor; NAUMENKO, Petr Vasil'yevich;
TOVBIN, Isaak Moiseyevich; FANIYEV, Garigin Georgiyevich; ~~BODYAZHINA, Z.I.~~
~~Z.I.~~ kandidat tekhnicheskikh nauk, retsenzent; GRAUERMAN, S.A.,
kandidat tekhnicheskikh nauk, retsenzent; IRODOV, M.V., kandidat
tekhnicheskikh nauk, retsenzent; KUPCHINSKIY, P.D., kandidat tekhnicheskikh nauk, retsenzent;
SERGHEYEV, A.G., kandidat tekhnicheskikh nauk, retsenzent; STERLIN, B.Ya., kandididat tekhnicheskikh nauk, retsenzent;
MASLOVA, Ye.F., redaktor; CHEBYSHEVA, Ye., tekhnicheskij redaktor

[Technology of oil and fat processing] Tekhnologiya pererabotki shirov.
2-e izd., perer. i dop. Pod red. B.N.Tiutiunnikova. Moskva, Fishcho-promizdat, 1956. 494 p. (MIRA 10:2)
(Oils and fats)

RZHEKCHIN, V.P., starshiy nauchnyy sotrudnik; BODYAZHINA, Z.I.; VENGEROVA, N.V.; VISHNEPOL'SKAYA, F.A.; GALUSHKINA, N.A.; GAVRILENKO, I.V.; GRAUERMAN, L.A.; IRODOV, M.V.; KARANTSEVICH, L.G.; KREYSINA, R.A.; KUPCHINSKIY, P.D.; LEVIT, M.S.; LEONT'YEVSKIY, K.Ye.; LITVINENKO, V.P.; LYUBCHANSKAYA, Z.I.; MAZYUKOVICH, V.A.; MAN'-KOVSKAYA, N.K.; NEVOLIN, F.V.; POGONKINA, N.I.; POPOV, K.S.; PREMET, G.K.; SARKISOVA, V.G.; SEMENOV, Ye.A.; STERLIN, B.Ye.; SERGEYEV, A.G., kand.tekhn.nauk, obshchiy red.; PRITYKINA, L.A., red.; TARASOVA, N.M., tekhn.red.

[Technical and chemical production control and accounting in the oils and fats industry] Tekhnokhimicheskii kontrol' i uchet proizvodstva v maslodobyvaiushchei i zhiropererabatyvaiushchei promyshlennosti. Moskva, Pishchepromizdat. Vol.1. 1958. 403 p.
(Oil industries) (MIRA 13:1)

BOITYAZHINA, Z.I.; VENGEROVA, N.V.; GEYSHINA, K.V.; GRAUERMAN, L.A.;
 IRODOV, M.V.; KARANTSEVICH, L.G.; KRAL'-OSIKINA, G.A.;
 KUPCHINSKIY, P.D.; LEONT'YEVSKIY, K.Ye.; LITVINENKO, V.P.;
 LYUBCHANSKAYA, Z.I.; MAZYUKEVICH, V.A.; MAN'KOVSKAYA, N.K.;
 NEVOLIN, F.V.; POGONKINA, N.I.; POPOV, K.S.; PREMET, G.K.;
 RZHEKHIN, V.P., starshiy nauchnyy sotrudnik; SARKISOVA, V.G.;
 SEMENOV, Ye.A.; STERLIN, B.Ya.; TIPISOVA, T.G.; SERGEYEV,
 A.G., kand.tekhn.nauk, red.; PRITYKINA, L.A., red.; GOTLIB,
 E.M., tekhn.red.

[Technochemical control and production accounting in the oils
 and fats industry] Tekhnokhimicheskii kontrol' i uchet proiz-
 vodstva v maslodobyvaiushchei i zhiropererabatyvaiushchei pro-
 myshlennosti. Moskva, Pishchepromizdat. Vol.2. [Special
 methods in the analysis of raw material and semiprocessed and
 finished products] Spetsial'nye metody analiza syr'ia, polu-
 fabrikatov i gotovoi produktii. 1959. 495 p. (MIRA 13:5)
 (Oil industries) (Oils and fats--Analysis)

L 23459-65 EWT(m)/EWP(j) Po-4 RM

ACCESSION NR: AR4048184

S/0081/64/000/009/SQ91/SQ91

SOURCE: Ref. zh. Khimiya, Abs. 95613

AUTHOR: Atauliyev, A. Kh.; Bodayzhina, Z. J.

TITLE: Film forming properties of pentaphthalic esters modified with cotton seed oil acids

CITED SOURCE: Maslob.-zhir. prom-st', no. 7, 1963, 28-30

TOPIC TAGS: drying oil, surface coating resin, resin film, pentaphthalic ester, pentaerythritol, cotton seed oil, pentaphthalic resin, iodine number

TRANSLATION: The authors synthesized a series of pentaphthalic resins¹⁵, modified by cotton seed oil acids, which were enriched with linoleic acid and the fatty acid fractions of cotton seed oil with varying degrees of unsaturation. The iodine numbers of the acids used were 105.3, 124.3, 141.6, 160.2 and 159.7 (from the distilled acids of cotton soapstock). The composition of the pentaphthalic resins in % by weight was: 62.6% fatty acids, 17.8% pentaerythritol and 20% phthalic anhydride. Tests on drying oils containing 45% pentaphthalic resins, 50% white spirit and 5% by weight Pb-Mn-Co butyrate siccative showed the best
Card 1/1

L 23459-05

ACCESSION NR: AR4048184

results for resins modified with acid fractions having iodine numbers of 124.3 and 141.6. V. Latov

ASSOCIATION: None

SUB CODE: MT

ENCL: 00

Card 2/2

L 25657-65 EWT(m)/ENP(j) Pc-4 RM

ACCESSION NR: AR4048185

S/0081/64/000/009/S095/S095

SOURCE: Ref. zh. Khimiya, Abs. 95641

AUTHOR: Ataullayev, A. Kh.; Bodyazhina, Z. I.

TITLE: Film forming properties of xylitophthalic esters modified with cotton seed oil acids

CITED SOURCE: Tr. Vses. n.-i. in-ta zhirov, vy p. 23, 1963, 348-355

TOPIC TAGS: drying oil, cotton seed oil, linseed oil, xylitophthalic ester, varnish film, polyester film

TRANSLATION: The authors synthesized xylitophthalic esters with a 60% fat content, which were then modified with two types of cotton seed oil acids: the mixed acids and the unsaturated fraction with iodine numbers of 124.3-160.2; the saturated fraction was removed by crystallization with urea. The composition of the xylitophthalic ester in % by weight was: 60.0% fatty acids, 15.4% xylitol and 24.6% phthalic anhydride. The phthalic anhydride and then the xylitol were added, with stirring, to the fatty acids after they had been heated to 200C. The temperature was then raised to 260C and kept at this level until

Cord 1/2